



CHINA LAKE, CA

NAVAIR China Lake is one of the eight Naval Air Systems Command sites that provides the highest standard in warfare technology through supremacy in naval aviation technologies. China Lake, home to the Naval Air Warfare Center Weapons Division, provides efficient deployment of new weapon systems through a unique combination of its collocated laboratories, ranges, weapons test squadrons and the Navy's Air Test and Evaluation Squadron (VX-9). The site supports fleet training and tactics development, including major exercises on the Land Range, Superior Valley Tactical Training Range and Electronic Combat Range.

MISSION

NAVAIR China Lake's mission is to support NAVAIR in providing the warfighter with Absolute Combat Power through technologies that deliver dominant combat effects and matchless capabilities by:

- ◆ Performing Research, Development, Test and Evaluation (RDT&E), logistics, and in-service support for guided missiles, free-fall weapons, targets, support equipment, crew systems, and electronic warfare
- ◆ Integrating weapons and avionics on tactical aircraft
- ◆ Operating the Navy's western land and sea range test and evaluation complex
- ◆ Developing and applying new technology to ensure battle space dominance

China Lake is a leader in RDT&E of guided missiles, advanced weapons and weapon systems. This is proven through 50 years of unparalleled products and the following attributes:

- ◆ World leader in complex weapon systems and software integration.
- ◆ World leader in energetic materials and subsystems.
- ◆ Developed the Sidewinder missile-the world's premiere dogfight weapon. Sold to 31 countries.
- ◆ Unique world-class facilities and test ranges for weapon system solutions for the warfighter.

PRODUCTS AND SERVICES

MISSILES AND FREE-FALL WEAPONS RESEARCH AND DEVELOPMENT

For missiles and free-fall weapons, China Lake provides basic research, signal processing, advanced technology insertion, explosives and propellant development and engineering. China Lake provides weapons development expertise for acquisition, effectiveness analysis, laboratory/range testing, and weapon/component systems engineering. Examples of weapon systems developed are AGM-88 High-speed Antiradiation Missile (HARM); GBU-31 Joint Direct Attack Munition (JDAM); AGM-154 Joint Standoff Weapon (JSOW); AIM-9 Sidewinder; BGM-109 Tomahawk, and many others.

AIRCRAFT WEAPONS AND BATTLE SPACE INTEGRATION

China Lake provides integration of weapons and avionics onto tactical aircraft. Expertise includes systems integration, mission system design, software development and testing, full-up system testing, operator/maintainer handbooks, mission planning system development, fleet support, and foreign military sales. Tactical aircraft currently supported are F/A-18, AV-8B, AH-1W, AH-1Z, and EP-3E. With the current emphasis on network centric warfare, the concept of weapon/platform integration, is being extended to battle space integration.

NAVAIR is interconnecting virtual, real, and hardware-in-the-loop facilities across NAVAIR and at other services to develop and test network interoperability between systems.

TEST AND EVALUATION AND TRAINING

China Lake has extensive, unencroached land ranges to support developmental and operational test and evaluation and fleet training of missiles, free-fall weapons, electronic warfare systems and integrated warfare systems. Expertise includes ordnance environmental and safety testing, ordnance warhead testing, radar cross-section measurement, high-speed track testing, parachute and ejection seat testing, propulsion system testing, and electronic warfare testing.

PEOPLE

With a work force of approximately 3000 personnel, NAVAIR China Lake employs about 400 active-duty military personnel.

FACILITIES

Facilities facts include:

- ◆ China Lake encompasses more than 1.1 million acres (larger than the state of Rhode Island)
- ◆ Square miles of restricted airspace over land: 17,000
- ◆ R-2508 restricted airspace encompasses 12% of California's total airspace. Jointly managed with Edwards Air Force Base and Fort Irwin.
- ◆ Few areas in the world offers such wide variety of geographical features in close proximity... mountains, deserts, canyons, caves and forests. The unencroached air and land ranges at China Lake provide unmatched geographic conditions in which to develop and test weapon systems and explore tactics for desert and mountain environments.
- ◆ Buildings: More than 2,000
- ◆ Airfields: 1

ACCOMPLISHMENTS

During 58 years of service to the Navy and the nation, the Weapons Division has produced a substantial record of accomplishments. You will find a sampling of some of the singular events that have ensured NAWCAD's reputation as the Navy's premier weapons research, development, test and evaluation command at www.nawcwg.navy.mil. Major command awards include:

- ◆ 1998 Federal Laboratories Consortium (FLC) Award for Excellence in Technology Transfer
- ◆ 1997 Research & Development Magazine R&D 100 Award
- ◆ 1996 Office Naval Research Vice Admiral Harold G. Bowen Award

FOR MORE INFORMATION, CONTACT:

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